

Title (en)

METHODS OF MAKING A TUBULAR SPECIMEN WITH A PREDETERMINED WRINKLE DEFECT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER ROHRFÖRMIGEN PROBE MIT VORBESTIMMTEM FALTENDEFEKT

Title (fr)

PROCÉDÉS DE FABRICATION D'UN SPÉCIMEN TUBULAIRE AVEC UN DÉFAUT DE RIDES PRÉDÉTERMINÉ

Publication

EP 3379231 A3 20181003 (EN)

Application

EP 17197651 A 20171020

Priority

US 201715464681 A 20170321

Abstract (en)

[origin: EP3379231A2] There is a method of making a tubular specimen (314) with a predetermined wrinkle defect including providing (301) a layout tool (302) with a cavity forming member (302m) having a cavity (302c) which resembles a desired shape of the at least one wrinkle; orienting (303) a composite material around the mandrel at a wrap angle to form a closed loop; positioning (305) a wrinkle tool (306) on the closed loop; and/or generating at least one wrinkle with a predetermined characteristic in a portion of the closed loop to form a tubular specimen (314). The predetermined characteristic is at least one of the following: wrinkle location, an outward wrinkle, an inward wrinkle, a wrinkle width, a wrinkle height, and a wrinkle length. In another aspect, there is a method of offset load testing a tubular composite specimen (334). In a third aspect, there is a method (400) of determining allowable defects for a composite component.

IPC 8 full level

G01N 3/02 (2006.01); **B29C 70/08** (2006.01); **B29C 70/30** (2006.01); **B29C 70/32** (2006.01); **B29C 70/34** (2006.01); **B29C 70/38** (2006.01); **B29C 70/54** (2006.01); **B29C 70/56** (2006.01); **G01M 5/00** (2006.01); **G01N 3/04** (2006.01); **G01N 3/08** (2006.01)

CPC (source: EP US)

B29C 70/30 (2013.01 - EP US); **B29C 70/32** (2013.01 - EP US); **B29C 70/545** (2013.01 - EP US); **B29C 70/56** (2013.01 - EP US); **G01M 5/0033** (2013.01 - EP US); **G01M 5/0058** (2013.01 - EP US); **G01N 3/02** (2013.01 - EP US); **G01N 3/04** (2013.01 - EP US); **G01N 3/08** (2013.01 - EP US); **G01N 3/22** (2013.01 - US); **G06F 30/23** (2020.01 - US); **B29K 2913/00** (2013.01 - US); **B29L 2023/22** (2013.01 - EP US); **G01N 2203/0017** (2013.01 - EP US); **G01N 2203/0066** (2013.01 - EP US); **G01N 2203/0096** (2013.01 - EP US); **G01N 2203/0266** (2013.01 - EP US); **G01N 2203/027** (2013.01 - EP US); **G01N 2203/0274** (2013.01 - EP US); **G01N 2203/0298** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3379231 A2 20180926; **EP 3379231 A3 20181003**; **EP 3379231 B1 20190731**; EP 3557219 A1 20191023; EP 3557219 B1 20200826; US 10746640 B2 20200818; US 11566984 B2 20230131; US 2018275030 A1 20180927; US 2020340894 A1 20201029

DOCDB simple family (application)

EP 17197651 A 20171020; EP 19179199 A 20171020; US 201715464681 A 20170321; US 202016923413 A 20200708